M 5.4, 102 km NNW of San Antonio de los Cobres, Argentina

Origin Time: 2024-01-21 02:36:01 UTC (Sat 23:36:01 local)
Location: 23.3523° S 66.6742° W Depth: 206.5 km
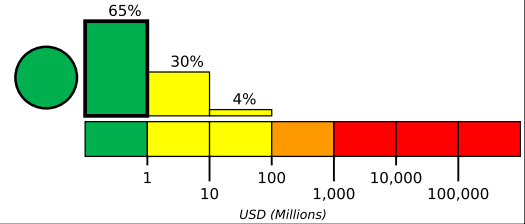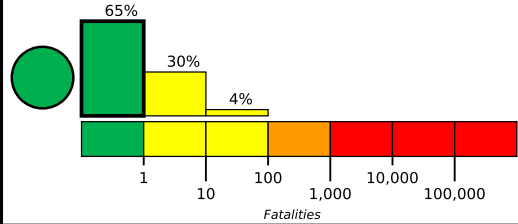
PAGER
Version 3

Created: 1 day, 0 hours after earthquake

Estimated Fatalities

65%
30%
4%

1   10   100   1,000   10,000   100,000
Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.
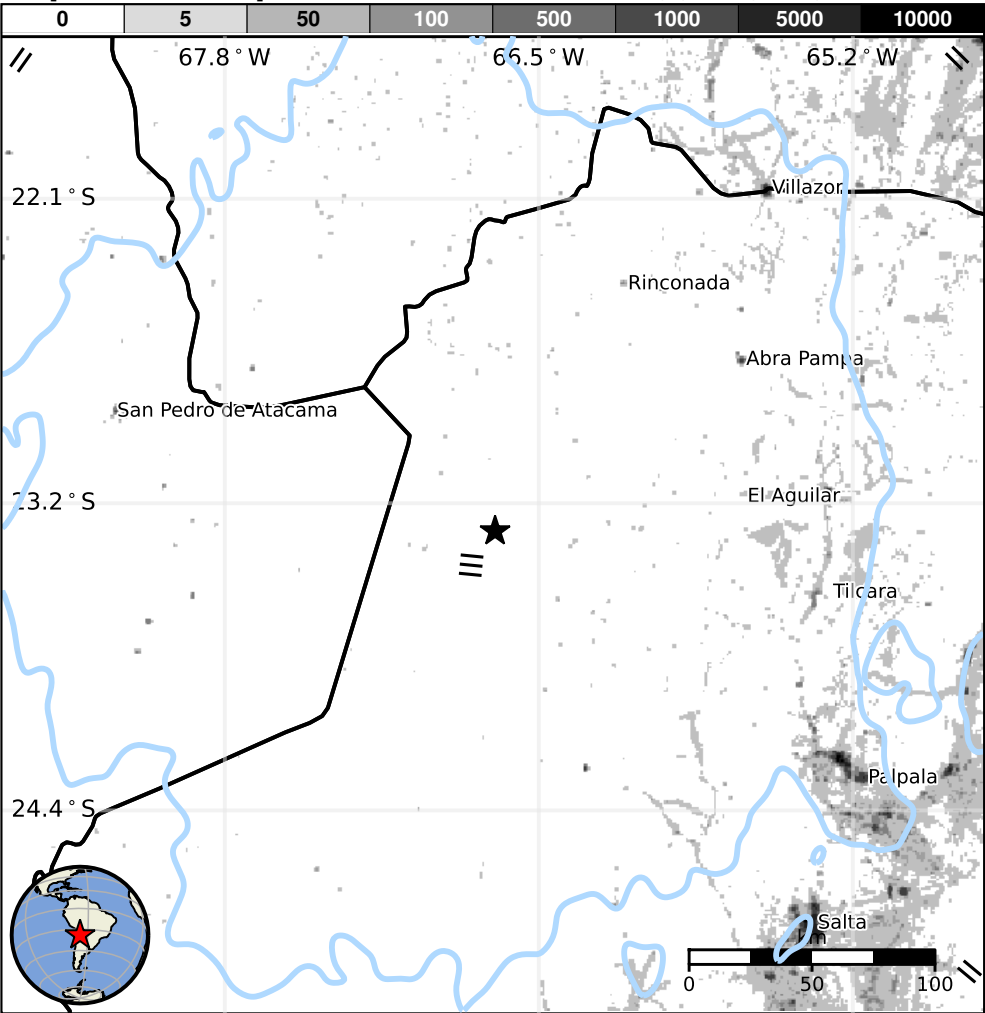
Estimated Economic Losses

65%
30%
4%

1   10   100   1,000   10,000   100,000
USD (Millions)

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	1,941k	0	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

0	5	50	100	500	1000	5000	10000

Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are adobe block and rubble/field stone masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1987-03-05	367	7.5	VII(46k)	1
2007-11-14	351	7.7	VII(33k)	2
1995-07-30	366	8.0	VIII(163k)	3

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
III	Susques	<1k
III	San Antonio de los Cobres	4k
III	**Abra Pampa**	**9k**
III	Humahuaca	11k
III	**Rinconada**	**<1k**
III	La Poma	<1k
III	San Salvador de Jujuy	306k
III	**Salta**	**513k**
III	Libertador General San Martin	49k
II	San Pedro	58k
II	Tarija	159k

bold cities appear on map.   (k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.
https://earthquake.usgs.gov/earthquakes/eventpage/us6000m56d#pager

Event ID: us6000m56d